Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Previously presented) A method for reducing distortion of a signal applied to an input of a circuit having a parasitic capacitance between said input and ground, comprising the steps of:

detecting at said input a direction of change in voltage of said input signal; and

introducing a current to said parasitic capacitance to prevent said parasitic capacitance from drawing current from said input signal responsive to detection of a positive edge of said input signal.

- 2. (Previously presented) The method of claim 1, wherein said signal is applied to the input of said circuit.
- 3. (Previously presented) A method for reducing distortion of a signal applied to an input of a circuit having a parasitic capacitance between said input and ground, comprising the steps of:

detecting at the input of said circuit a direction of change in voltage of said input signal; and

preventing discharge of said parasitic capacitance into the input of said

circuit responsive to detection of a negative edge of said input signal.

4. (Withdrawn) A method for reducing distortion of a signal applied to an

input of a circuit operating at high frequency and having a parasitic capacitance,

comprising the steps of:

detecting a change in voltage of said input signal; and

changing an impedance of a parallel termination circuit that is in parallel

with said parasitic capacitance to reduce distortion of said input signal.

5. (Previously presented) Apparatus for reducing distortion of a signal

applied to an input of a circuit operating at high frequency and having a parasitic

capacitance between said input and ground, comprising:

a detection circuit coupled to said input for detecting a change in voltage of

said input signal coupled to said input; and

a correction circuit coupled between said detection circuit and said input for

compensating for current from said input signal diverted to said parasitic

capacitance due to a positive edge of said input signal.

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6. (Original) The apparatus of claim 5, wherein said detection circuit includes a capacitance.

7. (Canceled)

8. (Previously presented) Apparatus for reducing distortion of a signal applied to an input of a circuit operating at high frequency and having a parasitic capacitance between said input and ground, comprising:

a detection circuit coupled to said input for detecting a change in voltage of said input signal coupled to said input; and

a correction circuit coupled between said detection circuit and said input for compensating for current from said parasitic capacitance to be added to said input signal due to a negative edge of said input signal.

9. (Original) The apparatus of claim 8, wherein said detection circuit includes a capacitance.

10. (Canceled)

11. (Withdrawn) Apparatus for reducing distortion of a signal applied to

an input of a circuit operating at high frequency and having a parasitic capacitance,

comprising:

a detecting circuit for detecting a change in voltage of said input signal; and

a correction circuit for changing an impedance of a parallel termination

circuit that is in parallel with said parasitic capacitance to reduce distortion of said

input signal.

12. (Previously presented) A method for reducing distortion of a signal

applied to an input of a circuit having a parasitic capacitance between said input

and ground, comprising the steps of:

detecting at said input a direction in change in voltage of said input signal;

and

introducing a current to said parasitic capacitance prevent distortion of said

input signal due to said parasitic capacitance responsive to detection of a positive

edge of said input signal.

13. (Previously presented) A method for reducing distortion of a signal

applied to an input of a circuit having a parasitic capacitance between said input

and ground, comprising the steps of:

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signal; and

preventing introduction of a current from said parasitic capacitance into said

detecting directly at said input a direction of change in voltage of said input

input signal responsive to detection of a negative edge of said input signal.

14. (Withdrawn) Apparatus for reducing distortion of an input signal

applied to an input of a circuit operating at high frequency and having a parasitic

capacitance at said input, comprising:

a first circuit element for selectively providing current to said parasitic

capacitance;

a second circuit element for selectively preventing discharge of said parasitic

capacitance; and

a control circuit monitoring said input signal for respectively turning on said

first circuit element and turning off said second circuit element when a positive

going edge of said input signal is detected and for turning off said first circuit

element and turning on said second circuit element when a negative going edge of

said input signal is detected.

15. (Withdrawn) The apparatus of claim 14 wherein said first and second

circuit elements have a common terminal coupled to said parasitic capacitance.

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16. (Withdrawn) Apparatus for reducing distortion of an input signal

applied to an input of a circuit operating at high frequency and having a parasitic

capacitance at said input, comprising:

a first circuit element for selectively providing current to said parasitic

capacitance;

a second circuit element for selectively preventing discharge of said parasitic

capacitance; and

a control circuit monitoring said input signal for respectively turning on said

first circuit element and turning off said second circuit element when a positive

going edge of second circuit element when a negative going edge of said input signal

is detected;

said first and second circuit elements have a common terminal coupled to

said parasitic capacitance;

said first and second circuit elements being transistors.

17. (Withdrawn) The apparatus of claim 16 wherein one of said transistors

is a PMOS transistor and another one of said transistors is an NMOS transistor.

- 18. (Previously presented) The method of claim 1 wherein, said introducing step includes introducing the current to said input.
 - 19. (Canceled)
 - 20. (Canceled)
- 21. (Withdrawn) The apparatus of claim 11 wherein said parasitic capacitance appears between said input and ground.
 - 22. (Canceled)
 - 23. (Canceled)
- 24. (Withdrawn) The apparatus of claim 14 wherein said parasitic capacitance appears between said input and ground.
- 25. (Previously added) The apparatus of claim 6 wherein the capacitance of the detection circuit has one terminal directly connected to one terminal of the parasitic capacitance.

26. - 27. (Canceled)

- 28. (Previously presented) The apparatus of claim 5 wherein said circuit has an output, said detection circuit being isolated from said output.
- 29. (Previously presented) The apparatus of claim 8 wherein said circuit has an output, said detection circuit being isolated from said output.
- 30. (Previously presented) The apparatus of claim 5 wherein said detection circuit is independent of said circuit operating at high frequency.
- 31. (Previously presented) The apparatus of claim 8 wherein said detection circuit is independent of said circuit operating at high frequency.
- 32. (New) A method for reducing distortion of a signal applied to an input of a circuit having a parasitic capacitance between said input and ground, comprising the steps of:

employing a device responsive to a rate of change of voltage for detecting at said input a direction of change in voltage of said input signal; and

activating a current generator for introducing a current to said parasitic capacitance to prevent said parasitic capacitance from drawing current from said

input signal responsive to detection of a rate of change of a positive edge of said input signal by said device.

33. (New) A method for reducing distortion of a signal applied to an input of a circuit having a parasitic capacitance between said input and ground, comprising the steps of:

providing a device responsive to rate of change of voltage for detecting at the input of said circuit a direction of change in voltage of said input signal; and

providing a current circuit having a transistor which is activated for preventing discharge of said parasitic capacitance into the input of said circuit by preventing a change of voltage at said input responsive to detection of a rate of change of a negative edge of said input signal.

34. (New) Apparatus for reducing distortion of a signal applied to an input of a circuit operating at high frequency and having a parasitic capacitance between said input and ground, comprising:

a rate of change of voltage detection circuit coupled to said input for detecting a change in voltage of said input signal coupled to said input; and

a correction circuit comprising a current generating circuit coupled between said detection circuit and said input to generate a current for compensating for current from said input signal diverted to said parasitic capacitance responsive to a rate of change of voltage of a positive edge of said input signal detected by said detection circuit.

35. (New) The apparatus of claim 34 wherein said correction circuit further comprises a current source coupled to a first transistor;

a common terminal between said current source and said first transistor coupled to an output of said detection circuit;

said current generating circuit further comprising a second transistor coupled to said common terminal through a third transistor.

- 36. (New) The apparatus of claim 35 wherein said second transistor is PMOS transistor and said third transistor is an NMOS transistor.
- 37. (New) The apparatus of claim 35 wherein said detection circuit comprises a capacitor coupled between said common terminal and said parasitic capacitance.